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NOTICE OF ALLOWANCE AND FEE(S) DUE

27195 7590 09/25/2008

AMIN. TUROCY & CALVIN, LLP
24TH FLOOR, NATIONAL CITY CENTER
1900 EAST NINTH STREET
CLEVELAND, OH 44114

EXAMINER

WANG, RONGFA PHILIP

ART UNIT

PAPER NUMBER

2191

DATE MAILED: 09/25/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/790,605

03/01/2004

Brian D. Harry

MS307018.1/MSFTP572US

9605

TITLE OF INVENTION: LIGHTWEIGHT METHODS FOR STORING WORK IN PROGRESS IN A SOURCE CODE CONTROL SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

27195 7590 09/25/2008

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/790,605 03/01/2004 Brian D. Harry MS307018.1/MSFTP572US 9605

TITLE OF INVENTION: LIGHTWEIGHT METHODS FOR STORING WORK IN PROGRESS IN A SOURCE CODE CONTROL SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/26/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
WANG, RONGFA PHILIP	2191	717-120000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,605	03/01/2004	Brian D. Harry	MS307018.1/MSFTP572US	9605
27195	7590	09/25/2008	EXAMINER	
AMIN. TUROCY & CALVIN, LLP 24TH FLOOR, NATIONAL CITY CENTER 1900 EAST NINTH STREET CLEVELAND, OH 44114			WANG, RONGFA PHILIP	
			ART UNIT	PAPER NUMBER
			2191	
DATE MAILED: 09/25/2008				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 789 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 789 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/790,605	HARRY ET AL.	
	Examiner	Art Unit	
	PHILIP WANG	2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communication filed on 6/30/2008.
2. ☒ The allowed claim(s) is/are 1-4, 6-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|---|

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DETAILED ACTION

1. This office action is in response to amendment filed on 6/23/2008.
2. Claims 1-3 and 5-22 are allowed.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian Steed (on behalf of Mimanshu, Amin Reg. No. 40,894) on September 8, 2008 to obviate any potential issues and to put the claims in condition for allowance.

3. The application has been amended as follows:

The following currently amended claims replace all previously presented claims.

1. (Currently Amended) A software development system embodied on a computer readable storage medium, comprising:
a shelving component that captures a current state of an intermediate software design containing pending changes developed on a private workspace and stores the captured state to a ~~central repository~~ version control system without a formal *commit* or check-in to the version control system, the shelving components stores the pending changes to the version control system to either a shelf space or a committed work space, wherein user selection of a preserve option associated with the shelving

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component causes the pending changes to be maintained on the private workspace when the intermediate software design is archived, and leaving the preserve option unselected ~~causes removes~~ the pending changes to be removed from the software design on the private workspace after the current state has been captured, the version control system processing the intermediate software design as a completed software design; and

~~a version control component that processes the intermediate software design as a completed software design.~~

an unshelving component that enables authorized users to retrieve respective versions of code captured by the shelving component to a private workspace to produce intermediate versions or builds of software in cases that utilize the shelf space, or final versions or builds of software in cases that utilize *the* committed work space, the captured intermediate software design is deleted from the version control system when the retrieval is initiated by an owner of the intermediate software design, and the captured intermediate software design is preserved on the version control system when retrieval is initiated by a non-owner of the software.

4. (Currently Amended) The system of claim 1, the version control ~~component~~ system includes committed work or files that are generally checked in as finalized versions of code.

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5. (Cancelled)

6. (Currently Amended) The system of claim 1, the shelving component is employed for at least one of an interrupted workflow application, a checkpoint application, a shared work application a code backup application, a work exchange application, ~~and~~ or a private workspace exchange application.

7. (Currently Amended) The system of claim 1, ~~further comprising an~~ the unshelving component that restores the private workspace to a state that was previously archived.

10. (Currently Amended) The system of claim 9, the state information for all files and folders includes at least one of a unique identifier for all files and folders in the workspace ~~and~~ or a version number of each file or folder in the workspace.

11. (Currently Amended) The system of claim 9, the state information for individual files includes at least one of a unique identifier for an individual file, a number of a version that was modified to create a current state, ~~and~~ or a locally modified state of a file.

14. (Currently Amended) A code development system embodied on a computer-readable storage medium, comprising:

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means for developing pending changes on non-finalized software on a private workspace;

means for archiving the non-finalized software with pending changes to a version control system without a formal commit or check-in to the version control system;

means for capturing one or more states associated with the non-finalized software to one of a shelf space or p committed work space;

means for maintaining the pending changes on the private workspace after archival when a preserve option is selected;

means for removing the pending changes from the non-finalized software on the private workspace upon archival when the preserve option is not selected; and

means for processing the archived non-finalized software along with finalized software on the version control system[[.]];

means for retrieving versions of the archived software to a private workspace to produce either intermediate versions of the software in cases that utilize the shelf space or final versions of the software in eases that utilize the committed work space;

means for deleting the archived software from the version control system when the retrieval is initiated by an owner of the non-finalized software; and

means for preserving the archived software from the version control system when the retrieval is initiated by a non-owner of the non-finalized software.

16. (Currently Amended) A method to facilitate code development, comprising:

creating a version of software in a private development system;

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automatically determining at least one state for the software;

shelving the software and the state on a version control system to one of a shelf space or a committed work space without a formal commit or check-in to the version control system; and

maintaining the pending changes on the private development system after shelving when a preserve option is selected;

removing the pending changes from the software on the private workspace after shelving when the preserve option is not selected;

unshelving the version of software to a private workspace in accordance with the state, the version of software is deleted from the version control system when unshelving is initiated by an owner of the software, and the version of software is preserved on the version control system when unshelving is initiated by a non-owner of the software[.];

producing an intermediate version of the software on the private workspace when the unshelving is performed on software shelved to the shelf space; and

producing a final version of the software on the private workspace when the unshelving is performed on software shelved to the committed work space.

19. (Currently Amended) The method of claim 18, the shelving command is associated with at least one of a preserve option, a workspace option, a replace option, a comment option, a file option, an error condition, ~~and~~ or an exit code.

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20. (Currently Amended) The method of claim 18, the shelving and the unshelving commands are associated with at least one security parameter.

21. (Currently Amended) The method of claim 18, the unshelving command is associated with at least one of a preserve option, a file option, a name option, a username option, an error condition, ~~and~~ or an exit code.

22. (Currently Amended) A user interface embodied on a computer-readable storage medium for archiving intermediate versions of code, comprising:

a display component to highlight one or more files on a private workspace to archive on a version control system, the files contain pending changes associated with an intermediate version of code; ~~and~~

a shelving command input to enable users to archive the intermediate files with pending changes to one of a shelf space or a committed work space in a version control system without a formal commit or check-in to the version control system ~~as if the intermediate files were finalized versions of the intermediate files, wherein~~ archiving removes the pending changes from the intermediate files on the private workspace unless the user selects a preserve option associated with the shelving ~~command~~ when a preserve option associated with the shelving command is not selected, ~~selection of the preserve option associated with the shelving command is option causes~~ and maintains the pending changes ~~to be maintained~~ on the private

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workspace when ~~the intermediate files are archived~~ the preserve option is selected [[.]]; and

an unshelving command input that enables authorized users to retrieve the archived files to a private workspace to produce intermediate versions or builds of the software in cases that utilize the shelf space, or final versions or builds of the software in cases that utilize the committed work space, wherein the archived files are deleted from the version control system when the unshelving command is initiated by an owner of the archived files, and the archived files are preserved on the version control system when unshelving command is initiated by a non-owner of the archived files.

23. (Cancelled)

-end of currently amended claims-

4. The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach the limitation "a shelving component that captures a current state of an intermediate software design containing pending changes developed on a private workspace and stores the captured state to a version control system without a formal *commit* or check-in to the version control system, the shelving components stores the pending changes to the version control system to either a shelf space or a committed work space, wherein user selection of a preserve option associated with the shelving component causes the pending changes to be maintained on the private workspace when the intermediate software design is archived, and leaving the preserve option unselected *causes* the pending changes to be removed from the software design on the private workspace after the

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current state has been captured, the version control system processing the intermediate software design as a completed software design; and

an unshelving component that enables authorized users to retrieve respective versions of code captured by the shelving component to a private workspace to produce intermediate versions or builds of software in cases that utilize the shelf space, or final versions or builds of software in cases that utilize *the* committed work space, the captured intermediate software design is deleted from the version control system when the retrieval is initiated by an owner of the intermediate software design, and the captured intermediate software design is preserved on the version control system when retrieval is initiated by a non-owner of the software.” as recited in independent claims 1, 14, 16, and 22.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Wang whose telephone number is 571-272-5934. The examiner can normally be reached on Mon - Fri 8 - 44:00PM. Any inquiry of general nature or relating to the status of this application should be directed to the TC2100 Group receptionist: 571-272-2100.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Wei Y Zhen/

Supervisory Patent Examiner, Art Unit 2191